



Form PTO-1449 (modified)

List of Patents and Publications for Applicant's  
INFORMATION DISCLOSURE STATEMENT  
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U.S. Patent Documents  
See Page 1Foreign Patent Documents  
See Page 1Atty. Docket No.  
BAYM:002USSerial No.  
09/941,165Applicant  
Graham B. I. Scott *et al.*Filing Date:  
August 28, 2001Group:  
2877Other Art  
See Page 2Foreign Patent Documents  
See Page 1

## U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
<i>bmc</i>	A1	4,582,788	4/15/86	Erlich	435	6	1/7/83
<i>bmc</i>	A2	4,656,127	4/7/87	Mundy	435	6	4/23/84
<i>bmc</i>	A3	4,683,194	7/28/87	Saiki <i>et al.</i>	435	6	3/28/85
<i>bmc</i>	A4	4,683,202	7/28/87	Mullis	435	91	10/25/85
<i>bmc</i>	A5	5,296,375	3/22/94	Kricka <i>et al.</i>	435	291	5/1/92
<i>bmc</i>	A6	5,304,487	4/19/94	Wilding <i>et al.</i>	435	291	5/1/92
<i>bmc</i>	A7	5,784,157	7/21/98	Gorfinkel <i>et al.</i>	356	318	11/21/95
<i>bmc</i>	A8	5,846,710	12/8/98	Bajaj	435	6	8/6/93
<i>bmc</i>	A9	5,856,174	1/5/99	Lipshutz <i>et al.</i>	435	286.5	1/19/96
<i>bmc</i>	A10	5,888,819	3/30/99	Goelet <i>et al.</i>	435	5	3/5/91
<i>bmc</i>	A11	5,904,824	5/18/99	Oh	204	601	3/7/97
<i>bmc</i>	A12	5,991,082	11/23/99	Tsunashima <i>et al.</i>	359	618	2/21/97
<i>bmc</i>	A13	6,004,744	12/21/99	Goelet <i>et al.</i>	435	5	10/11/91
<i>bmc</i>	A14	6,013,431	1/11/00	Soderlund <i>et al.</i>	435	5	12/2/93
<i>bmc</i>	A15	6,038,023	3/14/00	Carlson <i>et al.</i>	356	326	7/31/98
<i>bmc</i>	A16	6,139,800	10/31/00	Chandler	422	82.08	6/22/98
<i>bmc</i>	A17	6,153,379	11/28/00	Caskey <i>et al.</i>	435	6	6/22/94
<i>bmc</i>	A18	6,215,598 B1	4/10/01	Hwu	359	641	10/5/98
<i>bmc</i>	A19	6,226,126 B1	5/1/01	Conemac	359	618	4/19/00

## Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No

25097222.1

EXAMINER: *Magda Cruz*DATE CONSIDERED: *May 31, 2005*

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Exam. Init.	Ref. Des.	Citation
<i>hmc</i>	C1	Anazawa <i>et al.</i> , "A capillary array gel electrophoresis system using multiple laser focusing for DNA sequencing," <i>Anal. Chem.</i> , 68:2699-2704, 1996.
<i>hmc</i>	C2	Barany, "Genetic disease detection and DNA amplification using cloned thermostable ligase," <i>Proc. Natl. Acad. Sci. USA</i> , 88:189-193, 1991.
<i>hmc</i>	C3	Brenner <i>et al.</i> , "Gene expression analysis by massively parallel signature sequencing (MPSS) on microbead arrays," <i>Nat Biotechnol.</i> , 18:630-634, 2000.
<i>hmc</i>	C4	Brenner <i>et al.</i> , "In vitro cloning of complex mixtures of DNA on microbeads: physical separation of differentially expressed cDNAs," <i>PNAS</i> , 97(4):1665-1670, 2000.
<i>hmc</i>	C5	Cohen <i>et al.</i> , "Separation and analysis of DNA sequence reaction products by capillary gel electrophoresis," <i>J. Chromatogr.</i> , 516:49-60, 1990.
<i>hmc</i>	C6	Crabtree <i>et al.</i> , "Construction and evaluation of a capillary array DNA sequencer based on a micromachined sheath-flow cuvette," <i>Electrophoresis</i> , 21:1329-1335, 2000.
<i>hmc</i>	C7	Deeb <i>et al.</i> , "A Pro12Ala substitution in PPAR $\gamma$ 2 associated with decreased receptor activity, lower body mass index and improved insulin sensitivity," <i>Nature Genet.</i> , 20:284-287, 1998.
<i>hmc</i>	C8	Drossman <i>et al.</i> , "High-speed separations of DNA sequencing reactions by capillary electrophoresis," <i>Anal. Chem.</i> , 62:900-903, 1990.
<i>hmc</i>	C9	Effenhauser, <i>et al.</i> "High-speed separation of antisense oligonucleotides on a micromachined capillary electrophoresis device," <i>Anal. Chem.</i> , 66:2949-2953, 1994.
<i>hmc</i>	C10	Effenhauser, <i>et al.</i> "Glass chips for high-speed capillary electrophoresis separations with submicrometer plate heights," <i>Anal. Chem.</i> , 65:2637-2642, 1993.
<i>hmc</i>	C11	Harrison <i>et al.</i> , "Micromachining a miniaturized capillary electrophoresis-based chemical analysis system on a chip," <i>Science</i> , 261:895-897, 1993.
<i>hmc</i>	C12	Huang <i>et al.</i> , "Bias in quantitative capillary zone electrophoresis caused by electrokinetic sample injection," <i>Anal. Chem.</i> , 60:375-377, 1988..
<i>hmc</i>	C13	Huang <i>et al.</i> , "Capillary array electrophoresis using laser-excited confocal fluorescence detection: an approach to high-speed, high-throughput DNA sequencing," <i>Anal Chem.</i> , 64:967-972, 1992.
<i>hmc</i>	C14	Ju <i>et al.</i> , "Fluorescence energy transfer dye-labeled primers for DNA sequencing and analysis," <i>Proc. Natl. Acad. Sci. U S A.</i> , 92:4347-4351, 1995.

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Exam. Init.	Ref. Des.	Citation
<i>hmc</i>	C15	Kambara and Takahashi, "Multiple-sheathflow capillary array DNA analyser," <i>Nature</i> , 361: 565-566, 1993.
<i>hmc</i>	C16	Karger <i>et al.</i> , "Multiwavelength fluorescence detection for DNA sequencing using capillary electrophoresis," <i>Nucleic Acids Res.</i> , 19:4955-4962, 1991.
<i>hmc</i>	C17	Kheterpal <i>et al.</i> , "DNA sequencing using a four-color confocal fluorescence capillary array scanner," <i>Electrophoresis</i> , 17:1852-1859, 1996.
<i>hmc</i>	C18	Kornher and Livak "Mutation detection using nucleotide analogs that alter electrophoretic mobility," <i>Nucleic Acids Res.</i> , 17(19):7779-7784, 1989.
<i>hmc</i>	C19	Kuppuswamy <i>et al.</i> , "Single nucleotide primer extension to detect genetic diseases: Experimental application to hemophilia B (factor IX) and cystic fibrosis genes," <i>Proc. Natl. Acad. Sci. U.S.A.</i> , 88:1143-1147, 1991.
<i>hmc</i>	C20	Kurg <i>et al.</i> , "Arrayed primer extension: solid-phase four-color DNA resequencing and mutation detection technology," <i>Genet Testing</i> , 4(1):1-7, 2000.
<i>hmc</i>	C21	Landegren <i>et al.</i> , "A ligase-mediated gene detection technique," <i>Science</i> , 241:1077-1080, 1988.
<i>hmc</i>	C22	Lee and Anvret. "Identification of the most common mutation within the porphobilinogen deaminase gene in Swedish patients with acute intermittent porphyria," <i>Proc Nail Acad Sci U S A</i> , 88:10912-10915, 1991.
<i>hmc</i>	C23	Lieberwirth <i>et al.</i> , "Multiplex dye DNA sequencing in capillary gel electrophoresis by diode laser-based time-resolved fluorescence detection," <i>Anal Chem.</i> , 70:4771-4779, 1998.
<i>hmc</i>	C24	Livak and Hainer. "A microtiter plate assay for determining apolipoprotein E genotype and discovery of a rare allele," <i>Hum Mutat.</i> , 3:379-385, 1994.
<i>hmc</i>	C25	Lu and Yeung. "Optimization of excitation and detection geometry for multiplexed capillary array electrophoresis of DNA fragments," <i>Appl. Spectrosc.</i> , 49(5): 605-609, 1995.
<i>hmc</i>	C26	Luckey <i>et al.</i> , "High speed DNA sequencing by capillary electrophoresis," <i>Nucleic Acids Res.</i> , 18(15):4417-4421, 1990.
<i>hmc</i>	C27	Luryi, CRISP Abstract: Grant Number 5R01HG01487-05. 4 Color automated DNA sequencing machine with asynchronous network operation, 4/1996—6/2002.
<i>hmc</i>	C28	Madabhushi, "Separation of 4-color DNA sequencing extension products in noncovalently coated capillaries using low viscosity polymer solutions," <i>Electrophoresis</i> 19:224-230, 1998.

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<i>hmc</i>	C29	Manz, <i>et al.</i> , "Planar chips technology for miniaturization and integration of separation techniques into monitoring systems," <i>J. Chromatogr.</i> , 593:253-258, 1992.
<i>hmc</i>	C30	Meaburn, "Signal to noise ratios-the principal criteria of merit," In: <i>Detection and Spectrometry of Faint Light</i> , Reidel, Dordrecht, Holland, 246-266, 1976.
<i>hmc</i>	C31	Metzker <i>et al.</i> , "Electrophoretically uniform fluorescent dyes for automated DNA sequencing," <i>Science</i> , 271:1420-1422, 1996.
<i>hmc</i>	C32	Metzker <i>et al.</i> , "Termination of DNA synthesis by novel 3'-modified-deoxyribonucleoside 5'-triphosphates," <i>Nucleic Acids Res.</i> , 22:4259-4267, 1994.
<i>hmc</i>	C33	Nickerson <i>et al.</i> , "Automated DNA diagnostics using an ELISA-based oligonucleotide ligation assay," <i>Proc Natl Acad Sci USA.</i> , 87:8923-8927, 1990.
<i>hmc</i>	C34	Nikiforov <i>et al.</i> , "Genetic Bit Analysis: a solid phase method for typing single nucleotide polymorphisms," <i>Nucleic Acids Res.</i> , 22(20):4167-4175, 1994.
<i>hmc</i>	C35	Nyren <i>et al.</i> , "Solid phase DNA minisequencing by an enzymatic luminometric inorganic pyrophosphate detection assay," <i>Anal. Biochem.</i> , 208:171-175, 1993.
<i>hmc</i>	C36	Prezant and Fischel-Ghodsian, "Trapped-oligonucleotide nucleotide incorporation (TONI) assay, a simple method for screening point mutations," <i>Hum Mutat.</i> , 1:159-164, 1992.
<i>hmc</i>	C37	Prober <i>et al.</i> , "A system for rapid DNA sequencing with fluorescent chain-terminating dideoxynucleotides," <i>Science</i> , 238:336-341, 1987.
<i>hmc</i>	C38	Quesada and Zhang "Multiple capillary DNA sequencer that uses fiber-optic illumination and detection," <i>Electrophoresis</i> , 17:1841-1851, 1996.
<i>hmc</i>	C39	Quesada <i>et al.</i> , "Multi-capillary optical waveguides for DNA sequencing," <i>Electrophoresis</i> , 19:1415-1427, 1998.
<i>hmc</i>	C40	Ronaghi <i>et al.</i> , "A sequencing method based on real-time pyrophosphate," <i>Science</i> , 281:363, 365, 1998.
<i>hmc</i>	C41	Rosenblum <i>et al.</i> , "New dye-labeled terminators for improved DNA sequencing patterns," <i>Nucleic Acids Res.</i> , 25:4500-4504, 1997.
<i>hmc</i>	C42	Sambrook <i>et al.</i> , "Molecular Cloning," <i>A Laboratory Manual</i> , 2d Ed., Cold Spring Harbor Laboratory Press, New York, 13.7-13.9:1989.

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<i>lyn</i>	C43	Shibata <i>et al.</i> , "RIKEN integrated sequence analysis (RISA) system-384-format sequencing pipeline with 384 multicapillary sequencer," <i>Genome Res.</i> 10:1757-1771, 2000.
<i>lyn</i>	C44	Shumaker <i>et al.</i> , "Mutation detection by solid phase primer extension," <i>Hum Mutat.</i> 7:346-354, 1996.
<i>lyn</i>	C45	Smith <i>et al.</i> , "Fluorescence detection in automated DNA sequence analysis," <i>Nature</i> , 321(6071):674-679, 1986.
<i>lyn</i>	C46	Sokolov, "Primer extension technique for the detection of single nucleotide in genomic DNA," <i>Nucleic Acids Res.</i> , 18(12):3671, 1990.
<i>lyn</i>	C47	Sweedler <i>et al.</i> , "Fluorescence detection in capillary zone electrophoresis using a charge-coupled device with time-delayed integration," <i>Anal. Chem.</i> , 63:496-502, 1991.
<i>lyn</i>	C48	Swerdlow and Gesteland, "Capillary gel electrophoresis for rapid, high resolution DNA sequencing," <i>Nucleic Acids Res.</i> , 18(6): 1415-1419, 1990.
<i>lyn</i>	C49	Swerdlow <i>et al.</i> , "Capillary gel electrophoresis for DNA sequencing. Laser-induced fluorescence detection with the sheath flow," <i>J Chromatogr.</i> , 516:61-67, 1990.
<i>lyn</i>	C50	Swerdlow <i>et al.</i> , "Three DNA sequencing methods using capillary gel electrophoresis and laser-induced fluorescence," <i>Anal Chem.</i> , 63:2835-2841, 1991.
<i>lyn</i>	C51	Syvanen <i>et al.</i> , "A primer-guided nucleotide incorporation assay in the genotyping of Apolipoprotein E," <i>Genomics</i> , 8:684-692, 1990.
<i>lyn</i>	C52	Takahashi <i>et al.</i> , "Multiple sheath-flow gel capillary-array electrophoresis for multicolor fluorescent DNA detection," <i>Anal. Chem.</i> , 66:1021-1026, 1994.
<i>lyn</i>	C53	Taylor and Yeung, "Multiplexed fluorescence detector for capillary electrophoresis using axial optical fiber illumination," <i>Anal. Chem.</i> , 65: 956-960, 1993.
<i>lyn</i>	C54	Tsuda <i>et al.</i> , "Rectangular capillaries for capillary zone electrophoresis," <i>Anal. Chem.</i> , 62:2149-2152, 1990.
<i>lyn</i>	C55	Ueno and Yeung, "Simultaneous monitoring of DNA fragments separated by electrophoresis in a multiplexed array of 100 capillaries," <i>Anal. Chem.</i> , 66:1424-1431, 1994.
<i>lyn</i>	C56	Wei and Hemmings, "The NOTCH4 locus is associated with susceptibility to schizophrenia," <i>Nature Genet.</i> , 25:376-377, 2000.

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<i>hmc</i>	C57	Woolley and Mathies, "Ultra-high-speed DNA fragment separations using microfabricated capillary array electrophoresis chips," <i>Proc Natl Acad Sci U S A</i> , 91:11348-11352 1994.
<i>hmc</i>	C58	Yeo <i>et al.</i> , "A frameshift mutation in MC4R associated with dominantly inherited human obesity," <i>Nature Genet.</i> , 20:111-112, 1998.
<i>hmc</i>	C59	Zagursky and McCormick, "DNA sequencing separations in capillary gels on a modified commercial DNA sequencing instrument," <i>Biotechniques</i> , 9(1): 74-79, 1990.
<i>hmc</i>	C60	Zhang <i>et al.</i> , "A multiple-capillary electrophoresis system for small-scale DNA sequencing and analysis," <i>Nucleic Acids Res.</i> , 27(24):e36, i-vii, 1999.

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